

Integrated Device Technology, Inc. 6024 Silver Creek Valley Road San Jose, CA 96138

PR	ODUCT/PROCESS (	CHANGE NO	OTICE (PCN)
PCN #: W1512-01	DATE December 18, 2015	MEANS OF DISTIN	NGUISHING CHANGED DEVICES:
Product Affected: Refer to affected parts list on attachment II		■ Product Mark	New orderable part #
		<ul><li>□ Back Mark</li><li>■ Date Code</li></ul>	Or V sharester in the data and on the ten
		□ Other	Y character in the date code on the top mark
Date Effective: March 18, 201	6		mark
Contact: IDT PCN DESI	K	Attachment:	Yes No
E-mail: pcndesk@idt.	<u>com</u>	Samples: Available	e upon request
DESCRIPTION AND PURPOS			
☐ Die Technology	This notification is to advise our customers that IDT parts manufactured at Global Foundries Singapore on the CMOS 0.13um 1P6M process, are being converted to a 300mm wafer size from a 200mm		
☐ Wafer Fabrication Process	wafer size. This change is being r		process tool set and provide productivity
☐ Assembly Process	enhancements.		
■ Equipment	There is no change to the product	design or process tech	nology.
□ Material	There is also no change to the pac	ckage, backend manufa	acturing process or the the data sheet with the
□ Testing	execption of part # change on select devices.		
☐ Manufacturing Site	Refer to attachment I for the qual	ification report.	
□ Data Sheet	There is a change to the ordering part number on select devices. Refer to the affected parts list on attachment II for details on the means to distinguish the change.		devices. Refer to the affected parts list on
□ Other			
RELIABILITY/QUALIFICAT Based on wafer and component le	ION SUMMARY: evel qualification to date and charac	terization tests, there i	is no change to the performance or
reliability of the product.			
CUSTOMER ACKNOWLEDG			
	quire written notification of this cha	-	
	tional information. If IDT does not	receive acknowledger	nent within 30 days of this notice
it will be assumed that this chan	ge is acceptable.  her version manufactured after the part of the	nrocess change offecti	ive data until the inventory
on the earlier version has been d		process change effecti	ive date until the inventory
Customer:		Approval for ship	ments prior to effective date.
Name/Date:	E-	Mail Address:	
Title:	Ph	none# /Fax# :	
CUSTOMER COMMENTS:			
IDT ACKNOWLEDGMENT (	OF RECEIPT:		
RECD. BY:		DATE:	

# **Qualification Report**

An updated Qualification report will be sent out in January 2016.

Test Description	Conditions	1 <sup>st</sup> Lot	2 <sup>nd</sup> Lot	3 <sup>rd</sup> Lot	Comments
		SS / Results	SS / Results	SS / Results	
High Temperature Operating Life	JESD22-A108, +125°C, Vccmax, 1000hrs	77/0 @ 500 hours/ (1000 hours due January 15, 2016)	77/0 @ 500 hours/ (1000 hours due January 15, 2016)	77/0 @ 500 hours/ (1000 hours due January 15, 2016)	
High Temperature Storage	JESD22-A103, +150C, 1000 hours	25/0	25/0	(In progress / due January 15, 2016)	
Temperature Cycle <sup>1</sup>	JESD22-A104, Condition B, 700 cycles	25/0	25/0	(In progress / due January 15, 2016)	
HAST <sup>1</sup>	JESD22-A110 130°C , 85% RH, Vcc max.	25/0	25/0	(In progress / due January 15, 2016)	
Bond Pull Strength	M2011	5/0	5/0	n/a	30 balls / 5 units 2 lots
ESD: Human Body Model	JESD22-A114 (JS-001) Classification	Pass @ 2500V	Pass @ 2500V	(In progress / due January 15, 2016)	
ESD: Charged Device Model	JESD22-C101 Classification	Pass @ 1500V	Pass @ 1500V	(In progress / due January 15, 2016)	
Latch Up	JESD78 TA at room and max ambient operating temperature per datasheet	6 /0	6/0	6/0	

Note 1: For HAST and Temperature Cycle, samples have been subjected to pre-conditioning per JESD22-A113

Part#	Means of Distinguishing Change
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Part#	Means of Distinguishing Change
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8T49N287-021NLGI8	8T49N287A-021NLGI8

Part#	Means of Distinguishing Change
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8T49N287-996NLGI8	8T49N287A-996NLGI8
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8V97051NLGI8	"Y" character on top mark in the date code